

Peptide Immobilizing Kit

Peptide solid phase maker for ELISA

User's Manual

Beacle, Inc.
KYOTO JAPAN

---- Content ----

(1) introduction	2
(2) Product information	2
(3) Storage	2
(4) How to use	2
(5) Contact information	2

Cautions

Research use only. Do not use for medical and diagnostic purpose.

The SDS for this product can be downloaded from our website
(https://beacle.com/download_en/).

(1) Introduction

Peptides are often difficult to immobilize on ELISA microplates. Therefore, several microplates having functional surface, such as amino plate. But the plate having functional surface is rather expensive, and not always ready to use. "Peptide Immobilizing Kit" is designed to make conjugate with BSA in a simple manner, and to immobilize peptides on normal ELISA plate.

(2) Product information

This manual is applied to the product listed in the table.

Product #	Product name	content
BCL-PIK-01	Peptide Immobilizing kit	1kit (for 3 trial)

Components: •BSA solution: 1 tube
•Conjugate Reaction Solution: 1 tube
•Reaction Stop Agent: 3 tubes
•2 x conc. Coating Buffer: 1 bottle

(3) Storage

Store at 4°C

(4) How to use

1. Mixing of peptide and BSA solution

Peptide dissolved in PBS is mixed with BSA solution (1mg/mL). The basic mix ratio is 250μL of peptide (1mg/mL) and 250μL of BSA solution, but may need modification. As far as the condition of the total volume being 500μL and the BSA solution used being 250μL is kept constant, the peptide concentration can be varied within the range of 0.5 to 2mg/mL【note 1】.

2. Formation of conjugate

The following steps should be done at 4°C. Add 50μL of Reaction Solution to the mixed solution, and mix well by inverting the container, and let it stay for 30 sec. Repeat the same procedure 4 more times (totally 250μL of Reaction Solution is added). Then incubate for 60 min while mixing a few more times during the incubation.

3. Stop of reaction

Take out the container from refrigerator, and add all the powder from one tube of reaction Stop Agent into the container, and stop the reaction. Please the container opened during stop reaction since small gas 【note 2】 is generated by this reaction. Let it stay by the gas generation stops.

4. Immobilization of peptide

Dilute 2 x Coating Buffer by the same volume of pure water. Dilute the conjugate solution to desired concentration by 1 x Coating Buffer, and immobilize peptide by adding 100μL/well of diluted conjugate (for 96-well plate). Incubation time is generally 30 min to 3 hrs.

5. Storage of conjugate

The prepared conjugate can be stored for 1 week at 4°C 【note 3】.

【note 1】 The optimum mix ratio may be different according to peptide nature.

【note 2】 The gas is hydrogen. Although it is a small amount, please be careful of fire.

【note 3】 The storage time may be different according to peptide nature.

(5) Contact information

Beacle, Inc. (manufacturer and distributor)

14-1 Yoshida-Kawaracho, Sakyou-ku, Kyoto, 607-8305 Japan

E-mail: technical-support@beacle.com

Website: www.beacle.com